

2003-05 WSDOT Planning and Mobility Research



Freight Movements Within Urban Areas (\$40,000)

The most common type of urban truck movement has both origin and destination inside the region. However, even the most basic metrics are not available. Work in progress at the Mineta Transportation Institute is developing a measurement tool addressing this intra-urban freight delivery. This project will identify MPOs with an interest in applying the Mineta tool to their needs; validate and/or refine the tool to add more value; implement selected measurement routines on a pilot basis; and make recommendations for next steps.



Phase 3: Integrating Land Use and Transportation Investment Decision Making (\$100,000)

This project is the third phase of projects started in the 2001-03 biennium. It is looking at the links and disconnects between land use and transportation and how land use impacts the state's transportation investments. This phase will develop land use criteria and transportation performance measures to evaluate how well local jurisdiction land use strategies support efficiency of the transportation system.



FLOW Evaluation Performance Measure Enhancements (\$125,000)

Past research has resulted in TRAC's development of a FLOW evaluation system that is able to analyze and interpret Central Puget Sound freeway network usage and performance data in a timely and cost effective manner. Research funded in the current biennium enabled TRAC to implement requested software modifications to provide performance measures that were not originally part of the software toolset. This project will allow for continued FLOW evaluation system research activities. It will allow for the production of analytical tools directly useful to ongoing WSDOT freeway performance measurement activities.



Develop Roadway Performance Measures for Trucks (\$70,000)

This project will include a review of freight performance measures developed and used by other DOTs, local agencies, and other organizations, and will determine what data are needed to understand the performance of trucks on state roadways, what performance measures are relevant both to the freight industry and to WSDOT, what data can be cost effectively collected, and what the best methods of collecting those data are. Also included will be a review of the current best practices for applying performance measures to highway freight transportation systems. This project will produce a list of recommended highway freight performance measures for WSDOT and an implementation strategy. The research will also determine a data acquisition, quality assurance, and data manipulation process that could be used to develop an on-going performance measure program for WSDOT. The proposed data collection and performance measures system will be coordinated with other performance measures work being undertaken by TRAC and FMSIB to develop truck-oriented roadway performance measures and data collection guidance. This project leverages existing efforts to provide performance and data collection measures not currently available to the Department.